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1 Soft updates: a solution to the metadata update problem in file systems   ■
Gregory R. Ganger, Marshall Kirk McKusick, Craig A. N. Soules, Yale N. Patt
May 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 2
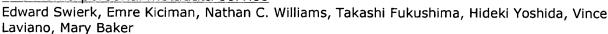**Publisher:** ACM Press

Full text available: 📄 pdf(147.90 KB)   Additional Information: full citation, abstract, references, citings, index terms

> Metadata updates, such as file creation and block allocation, have consistently been identified as a source of performance, integrity, security, and availability problems for file systems. Soft updates is an implementation technique for low-cost sequencing of fine-grained updates to write-back cache blocks. Using soft updates to track and enforce metadata update dependencies, a file system can safely use delayed writes for almost all file operations. This article describes soft ...

2 The Roma personal metadata service   ■
Edward Swierk, Emre Kiciman, Nathan C. Williams, Takashi Fukushima, Hideki Yoshida, Vince Laviano, Mary Baker
October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5
Publisher: Kluwer Academic Publishers

Full text available: 📄 pdf(221.38 KB)   Additional Information: full citation, abstract, references, index terms

> People now have available to them a diversity of digital storage facilities, including laptops, cell phone address books, handheld devices, desktop computers and web-based storage services. Unfortunately, as the number of personal data repositories increases, so does the management problem of ensuring that the most up-to-date version of any document in a user's personal file space is available to him on the storage facility he is currently using. We introduce the Roma personal metadata service t ...

> **Keywords**: data synchronization, distributed data storage, distributed databases, metadata, mobile computing, personal systems

3 Dynamic Metadata Management for Petabyte-Scale File Systems   ■
Sage A. Weil, Kristal T. Pollack, Scott A. Brandt, Ethan L. Miller
November 2004 **Proceedings of the 2004 ACM/IEEE conference on Supercomputing**
Publisher: IEEE Computer Society
Full text available: 📄 pdf(175.04 KB)   Additional Information: full citation, abstract

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1 Metadata for multimedia documents
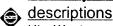
Klemens Böhm, Thomas C. Rakow
December 1994 **ACM SIGMOD Record**, Volume 23 Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(564.07 KB)   Additional Information: full citation, abstract, citings, index terms

> In this article metadata for mulimedia documents are classified in conformity with their nature, and the different kinds of metadata are brought into relation with the different purposes intended. We describe how metadata may be organized in accordance with the ISO standards SGML, which facilitates the handling of structured documents, and DFR, which supports the storage of collections of documents. Finally, we outline the impact of our observations on future developments.

2 An analysis of XML database solutions for the management of MPEG-7 media descriptions

Utz Westermann, Wolfgang Klas
December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(448.76 KB)   Additional Information: full citation, abstract, references, index terms, review

> MPEG-7 constitutes a promising standard for the description of multimedia content. It can be expected that a lot of applications based on MPEG-7 media descriptions will be set up in the near future. Therefore, means for the adequate management of large amounts of MPEG-7-compliant media descriptions are certainly desirable. Essentially, MPEG-7 media descriptions are XML documents following media description schemes defined with a variant of XML Schema. Thus, it is reasonable to investigate curren ...

> **Keywords:** MPEG-7, XML database systems, multimedia databases

3 Document management: Preservation of digital publications: an OAIS extension and implementation

Peter Rödig, Uwe M. Borghoff, Jan Scheffczyk, Lothar Schmitz
November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**
Publisher: ACM Press
Full text available: 📄 pdf(214.34 KB)   Additional Information: full citation, abstract, references, index terms

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1 An algebraic approach to file synchronization   ■
Norman Ramsey, El"od Csirmaz
September 2001 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 8th European software engineering conference held jointly with 9th ACM SIGSOFT international symposium on Foundations of software engineering ESEC/FSE-9**, Volume 26 Issue 5
Publisher: ACM Press

Full text available: 📄 pdf(301.78 KB)   Additional Information: full citation, abstract, references, citings, index terms

A *file synchronizer* restores consistency after multiple replicas of a filesystem have been changed independently. We present an algebra for reasoning about operations on filesystems and show that it is sound and complete with respect to a simple model. The algebra enables us to specify a file-synchronization algorithm that can be combined with several different conflict-resolution policies. By contrast, previous work builds the conflict-resolution policy into the specification, or worse, ...

2 The Roma personal metadata service   ■
Edward Swierk, Emre Kiciman, Nathan C. Williams, Takashi Fukushima, Hideki Yoshida, Vince Laviano, Mary Baker
October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5
Publisher: Kluwer Academic Publishers

Full text available: 📄 pdf(221.38 KB)   Additional Information: full citation, abstract, references, index terms

People now have available to them a diversity of digital storage facilities, including laptops, cell phone address books, handheld devices, desktop computers and web-based storage services. Unfortunately, as the number of personal data repositories increases, so does the management problem of ensuring that the most up-to-date version of any document in a user's personal file space is available to him on the storage facility he is currently using. We introduce the Roma personal metadata service t ...

Keywords: data synchronization, distributed data storage, distributed databases, metadata, mobile computing, personal systems

3 OAI in action: Repository synchronization in the OAI framework   ■
Xiaoming Liu, Kurt Maly, Mohammad Zubair, Michael L. Nelson
May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries**

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1   The Roma personal metadata service
Edward Swierk, Emre Kiciman, Nathan C. Williams, Takashi Fukushima, Hideki Yoshida, Vince Laviano, Mary Baker
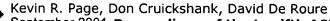October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5
Publisher: Kluwer Academic Publishers
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> People now have available to them a diversity of digital storage facilities, including laptops, cell phone address books, handheld devices, desktop computers and web-based storage services. Unfortunately, as the number of personal data repositories increases, so does the management problem of ensuring that the most up-to-date version of any document in a user's personal file space is available to him on the storage facility he is currently using. We introduce the Roma personal metadata service t ...

> **Keywords**: data synchronization, distributed data storage, distributed databases, metadata, mobile computing, personal systems

2   2b---Hypertext Systems: Its about time: link streams as continuous metadata
Kevin R. Page, Don Cruickshank, David De Roure
September 2001 **Proceedings of the twelfth ACM conference on Hypertext and Hypermedia**
Publisher: ACM Press
Full text available: 📄 pdf(289.08 KB)   Additional Information: full citation, abstract, references, citings, index terms

> As enabling technologies become available there is an increasing use of temporal media streams, such as audio and video, within a hypertext context. In this paper we present the rationale and requirements for delivering continuous metadata alongside the media stream, and focus on linking as our case study. We consider the mechanism for delivery of the metadata across a distributed system, the format and content of the metadata flow itself, and the presentation of the media and augmenting meta ...

> **Keywords**: metadata, open hypermedia, streamed media, temporal linking

3   Architectural design of a multi-agent system for handling metadata streams
Don Cruickshank, Luc Moreau, David De Roure